

## REMARKS

The present response is intended to be fully responsive to all points of rejection raised by the Examiner and is believed to place the application in condition for allowance. Favorable reconsideration and allowance of the application is respectfully requested.

Claims 1-77 are pending in this case. Claims 1-24, 33-77 have been objected to. Claims 1-24, 26-27, 55-77 have been rejected under 35 U.S.C. § 112, second paragraph. Independent claims 1, 25, 34, 55, 67 and dependent claims 3, 8-11, 23-24, 26-28, 33, 38-39, 45, 47-48, 56-58, 63-65, 69, 74-77 have been amended.

### Response to Drawing Objections

The Examiner objected to the drawings because in Figure 2, reference character "16" is suggested to point to the Synchronization/Channel Estimation block. Applicants have corrected Figure 2 and submit a replacement sheet in accordance therewith.

The Examiner objected to the drawings under 37 CFR 1.84(p)(5) because they do not include reference characters 25, 27, 28 mentioned in the description. Applicant submit corrected drawing sheets in accordance therewith.

Applicant submit with this Response four replacement sheets for Figures 2, 3, 4, 5 to correct these and other typographical errors found in the drawings. No new matter have been added by these corrections.

### Response to Objection to the Specification

The Examiner objected to the disclosure because of several informalities. Applicant has amended the specification in accordance with the Examiner's suggested corrections. No new matter has been added.

### Response to Claim Objections

The Examiner objected to claims 1-24, 33-77 because of several informalities. Applicant has amended the claims in accordance with the Examiner's suggested corrections.

### Response to 35 U.S.C. § 112, Second Paragraph Rejections

The Examiner rejected claims 1-24, 26-27, 55-77 under 35 U.S.C. § 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which Applicant regards as the invention.

Claims 1-24, 26-27, 55-77 now feature language which make it clear what the subject matter is that the Applicant regards as the invention. Applicant believes that claims 1-24, 26-27, 55-77 overcome the Examiner's rejection based on § 112, second paragraph grounds. The Examiner is respectfully requested to withdraw the § 112, second paragraph rejection.

#### Correction of Typographical Errors

Amendments have been made to correct grammatical and usage errors in the specification. No new matter has been added to the application by these amendments.

#### Allowed Claims

The Examiner has indicated that claims 25, 28-54 are allowable over prior art references because related references do not disclose an equalization technique comprising of removing an influence of previously estimated symbols from a received symbol using the impulse response of the previous symbols and correlating the channel response with the modified received symbol to produce a matched filter output.

#### Conclusion

In view of the above amendments and remarks, it is respectfully submitted that independent claims 1, 25, 34, 55, 67 and hence dependent claims 2-24, 26-33, 35-54, 56-66, 68-77 are now in condition for allowance. Prompt notice of allowance is respectfully solicited.

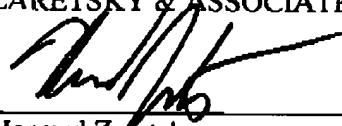
In light of the Amendments and the arguments set forth above, Applicant earnestly believes that they are entitled to a letters patent, and respectfully solicit the Examiner to expedite prosecution of this patent applications to issuance. Should the Examiner have any questions, the Examiner is encouraged to telephone the undersigned.

Customer Number: 25937

Respectfully submitted,

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